

Title (en)

ELECTRO-THERAPEUTIC STIMULATOR

Title (de)

ELEKTROTHERAPEUTISCHER STIMULATOR

Title (fr)

STIMULATEUR ÉLECTRO-THÉRAPEUTIQUE

Publication

**EP 2485796 A4 20140430 (EN)**

Application

**EP 10822551 A 20101005**

Priority

- US 24869409 P 20091005
- US 2010051519 W 20101005

Abstract (en)

[origin: US2011082524A1] An electro-therapeutic stimulator provides an output signal having a first controllable main pulse periodic-exponential signal and a second background pulse periodic-exponential signal. The main pulse signal is controllable, preferably to a digital numerical value of 1 to 500 pulses per second, to a digital, numerical value of duty cycle, and to a digital numerical value of balance. The signal is produced using a class D amplifier and with a transformer optimized for the background pulse (such as at 10 kHz) rather than for the main pulse. The electro-therapeutic stimulator includes a counter which forces purchasing of durations of signal time for ongoing use of the stimulator, and a challenge code procedure for facilitating additional time purchases.

IPC 8 full level

**A61N 1/00** (2006.01); **A61N 1/36** (2006.01)

CPC (source: EP US)

**A61N 1/36003** (2013.01 - EP US); **A61N 1/36031** (2017.07 - EP US); **A61N 1/36034** (2017.07 - EP US); **A61N 1/36171** (2013.01 - EP US);  
**A61N 1/36021** (2013.01 - EP US); **A61N 1/36175** (2013.01 - EP US)

Citation (search report)

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- [X] SEAN LUMPKIN: "ARP TRAINER", January 2005 (2005-01-01), pages 1 - 2, XP055108476, Retrieved from the Internet <URL:[http://www.slchiro.com/ARP\\_Show.pdf](http://www.slchiro.com/ARP_Show.pdf)> [retrieved on 20140318]
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- See references of WO 2011044159A1

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US9498633B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 2011082524 A1 20110407; US 9302102 B2 20160405**; CA 2780275 A1 20110414; CA 2780275 C 20210105; EP 2485796 A1 20120815;  
EP 2485796 A4 20140430; US 8768474 B1 20140701; WO 2011044159 A1 20110414

DOCDB simple family (application)

**US 89852010 A 20101005**; CA 2780275 A 20101005; EP 10822551 A 20101005; US 2010051519 W 20101005; US 89833310 A 20101005